

Table S1. Age, pre-pregnancy BMI and race between women with future T2D and no T2D

	No T2D (n=100)	Future T2D (n=100)	P-value
Age, Mean (SD)	33.48 (4.95)	34.06 (5.40)	0.242
Pre-pregnancy BMI, Mean (SD)	32.18 (7.37)	33.79 (8.68)	0.298
Race, n (%)			1.000
Non-Hispanic white	16 (16%)	16 (16%)	
Asian	36 (36%)	36 (36%)	
Non-Hispanic black	10 (10%)	10 (10%)	
Hispanic	36 (36%)	36 (36%)	
Other	2 (2%)	2 (2%)	

Normal distribution was checked through histogram and Q-Q plot. Data are presented as Mean (SD) for continuous variables that are approximately normally distributed. Chi-square test was used for categorical variables (n, %), student's t-test was used for continuous variables (Mean, SD). BMI, body mass index; T2D, type 2 diabetes.

Table S2. Lactation-related clinical variables in future T2D, no T2D and all women

	Future T2D (n=100)	No T2D (n=100)	All (n=200)	p-value (T2D vs. no T2D)
Prolactin (ng/ml), Median (IQR)	54.68 (29.66- 113.72)	74.31 (39.61-132.8)	60.88 (34.85- 126.24)	0.104
Quartile 1	<=29.66 ng/ml	<=39.61 ng/ml	<=34.85 ng/ml	
Quartile 2	>29.66-54.68 ng/ml	>39.61-74.31 ng/ml	>34.85-60.88 ng/ml	
Quartile 3	>54.68-113.72 ng/ml	>74.31-132.80 ng/ml	>60.88-126.24 ng/ml	
Quartile 4	>113.72 ng/ml	>132.80 ng/ml	>126.24 ng/ml	
Pre-pregnancy BMI, kg/m ² , Mean (SD)	33.79 (8.68)	32.18 (7.37)	32.99 (8.07)	0.298
Glucose tolerance at 6-9 weeks postpartum, n (%)				<0.001
Normal	34 (34%)	72 (72%)	106 (53%)	
Impaired	66 (66%)	28 (28%)	94 (47%)	
LIR 2-month score, Median (IQR)	1.72 (0.97-2.00)	1.86 (1.00-2.00)	1.82 (1.00-2.00)	0.661
Total lactation duration, months, Median (IQR)	5.60 (2.00-11.99)	7.08 (2.71-12.00)	6.02 (2.20-12.00)	0.305

Normal distribution was checked through histogram and Q-Q plot. Data are presented as Mean (SD) for continuous variables that are approximately normally distributed. Data are presented as Median (IQR) for continuous variables with asymmetrical distributions. Chi-square test was used for categorical variables (n, %), student's t-test was used for continuous variables (Mean, SD), and Mann-Whitney U test was used for continuous variables (Median, IQR).

BMI, body mass index; LIR, lactation intensity/duration ratio; T2D, type 2 diabetes.

2h-PG, 2-hour post-load plasma glucose; BMI, body mass index; FPG, fasting plasma glucose; HDL-C, high density lipoprotein-cholesterol; HOMA-IR, homeostatic model assessment for insulin resistance; LIR, lactation intensity/duration ratio; TAG, triglyceride.

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